

L'outillage Git sous Eclipse

eclipse party indigo 3.7

\$ whoami

Connaissez vous Git ?

- Pas du tout / de loin
- Je l'utilise régulièrement

Plan

Plan

- Petit rappel sur Git

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- JGit

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- EGit

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- D emos



Git

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- Ils sont locaux
- Rapide et «scale» bien
- Nombreux «workflows» possibles
- Facile à «forker» et à «merger»

Caractéristiques

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- Stockage par objets Vs par fichiers

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- «Staging area» ou index

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- «Staging area» ou index
- Facile de manipuler les «commits»

Reproches

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Reproches

- Ligne de commande
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- Ne sauvera pas les ours polaires


```
$ git log
```

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- 1.0 juin 2011: eclipse 3.7 Indigo



JGit

Git en Java

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- Implémentation 100% Java

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- **Eclipse Distribution License v1.0**

JGit features

- init, clone
- add, rm, commit, tag
- diff, log, blame
- branch, checkout, merge,
- fetch, push

JGit feature

- Stockage alternatif du repository
 - HBase, Cassandra
 - JDBC
 - ...

Utilisons JGit

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- Vous?

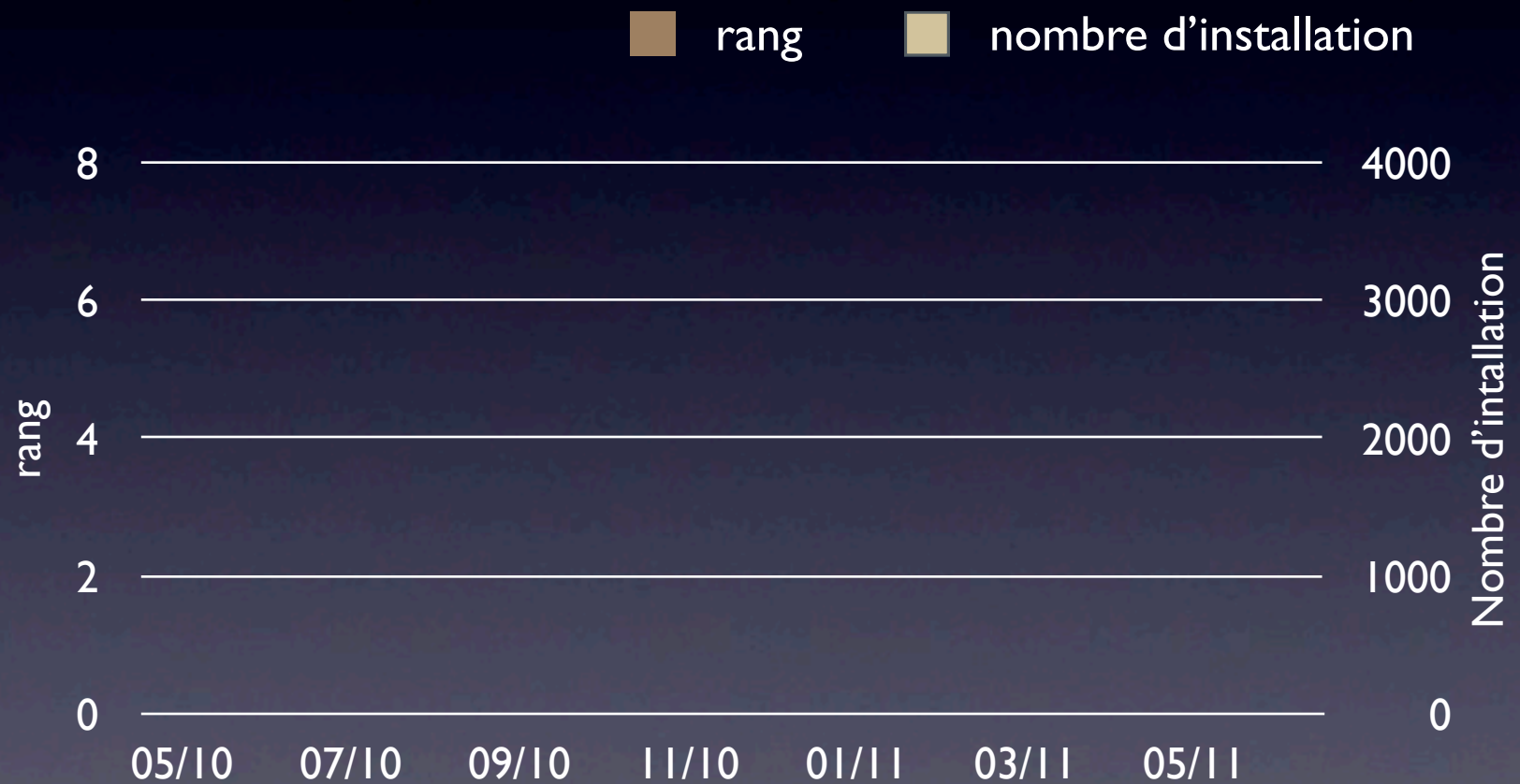


EGit

Team plugin pour Git

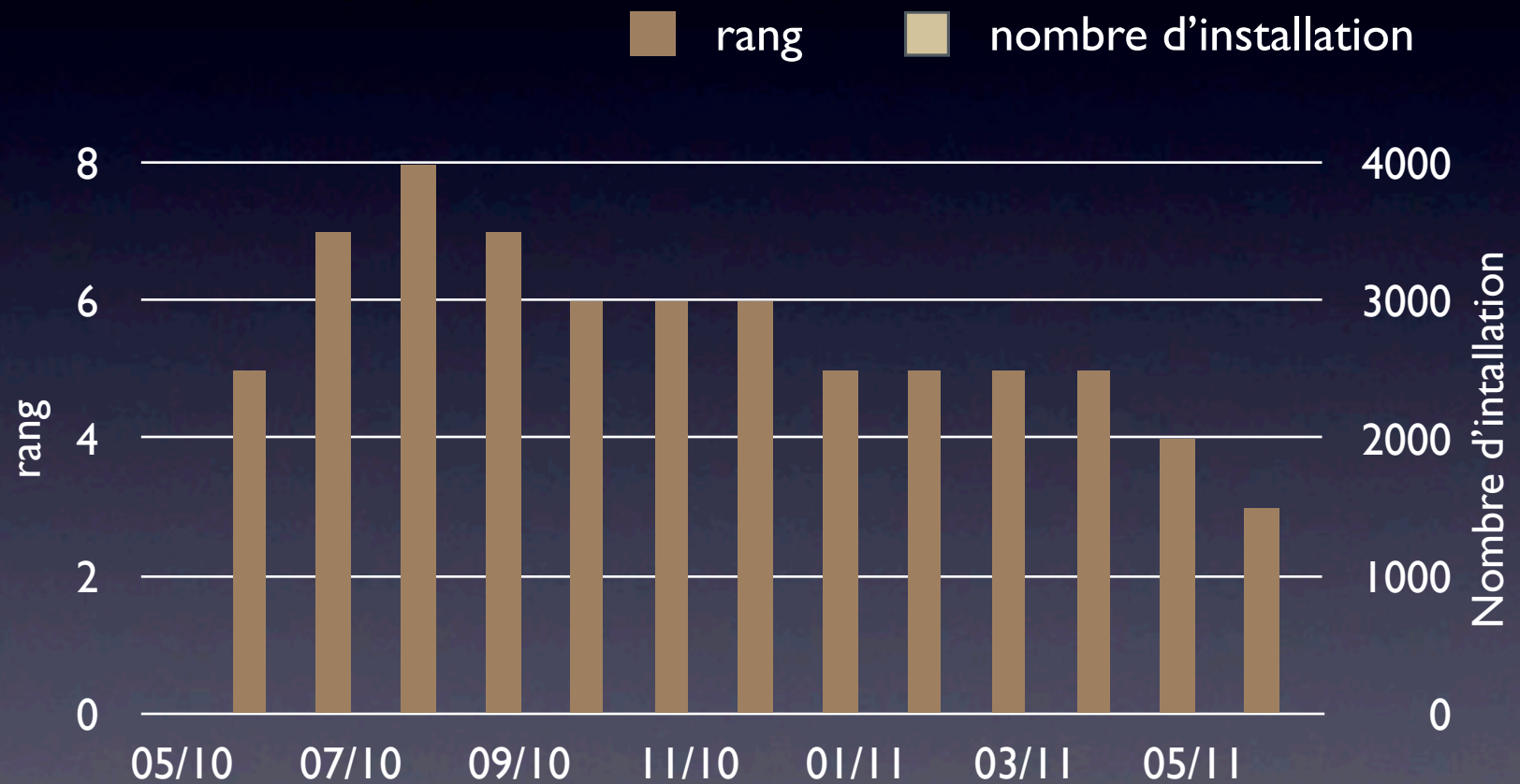
- Installation avec «l'update site» ou le «market place»
- Perspective Git
- Intégration avec les vues 'Projets'
- Synchronize
- Historique,
- ...

Marketplace Metrics



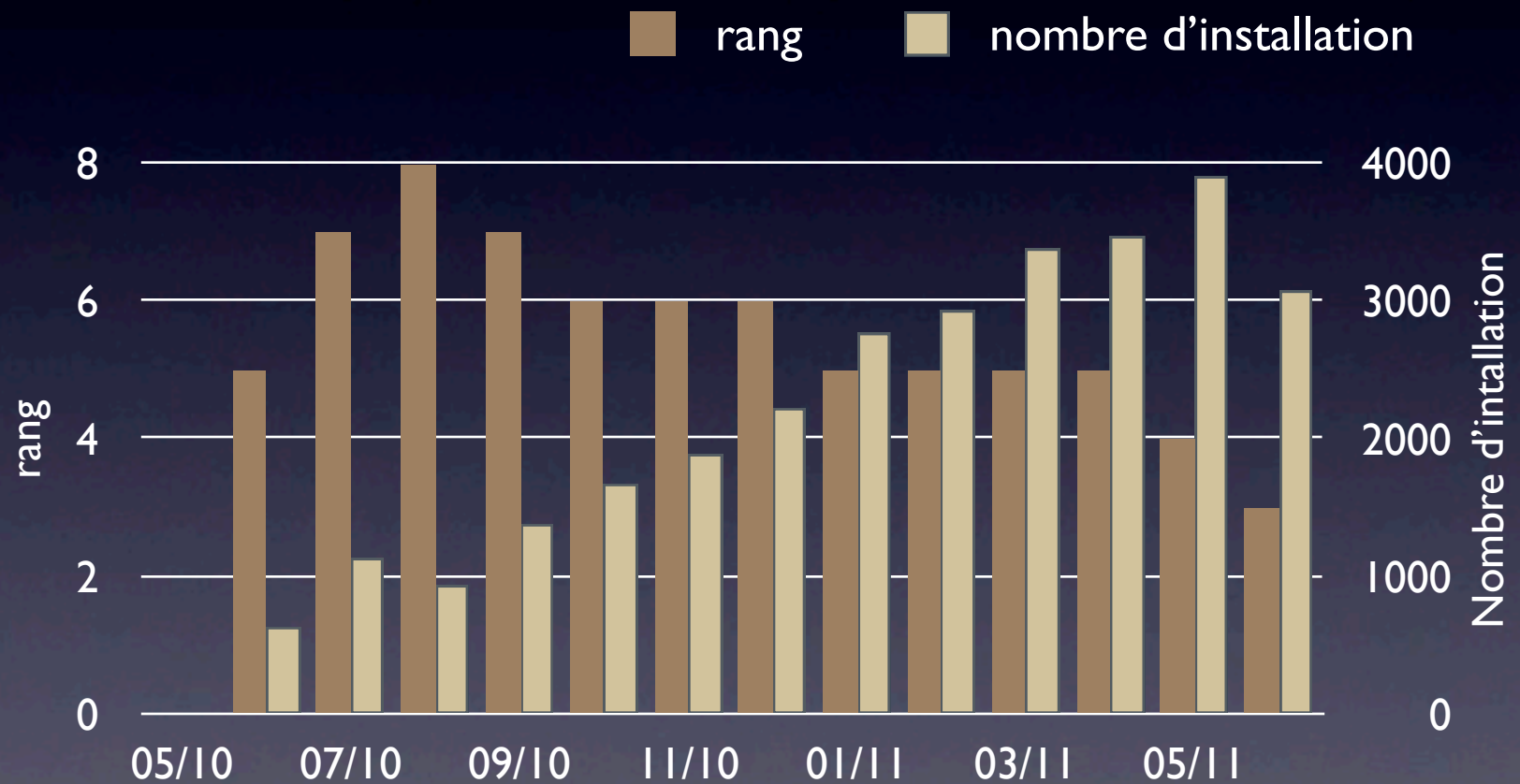
<http://marketplace.eclipse.org/content/egit-git-team-provider/metrics>

Marketplace Metrics



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Perspective Git

The screenshot shows the Eclipse IDE in the 'Git Repository Exploring' perspective. The left sidebar displays a tree view of a Git repository for 'jgit'. The right pane shows the Properties view with a table for metadata.

Git Repository Exploring - Eclipse SDK - /Users/igor/Documents/workspace-indigo

Git Repositories

- ▶ **egit** - /Users/igor/Developpement/Repository/OpenSource/eclipse/egit/.git [stable-1.0]
- ▶ **gerrit** - /Users/igor/Developpement/Repository/OpenSource/gerrit/.git [master]
- ▶ **git** - /Users/igor/Developpement/Repository/OpenSource/git/.git [master]
- ▶ **jenkins** - /Users/igor/Developpement/Repository/OpenSource/jenkins/.git [master]
- ▼ **jgit** - /Users/igor/Developpement/Repository/OpenSource/eclipse/jgit/.git [b2b58feba74]

 - Branches
 - Local
 - master
 - stable-1.0
 - Remote Tracking
 - origin
 - master
 - stable-0.10
 - stable-0.11
 - stable-0.12**
 - stable-0.7
 - stable-0.8
 - stable-0.9
 - stable-1.0
 - Tags
 - References
 - Remotes
 - origin
 - git://github.com/eclipse/jgit.git
 - git://github.com/eclipse/jgit.git
 - Working directory - /Users/igor/Developpement/Repository/OpenSource/eclipse/jgit
 - .DS_Store
 - .eclipse_iplog
 - .gitattributes
 - LICENSE
 - pom.xml
 - README
 - SUBMITTING_PATCHES
 - .git
 - org.eclipse.jgit
 - org.eclipse.jgit.ant
 - org.eclipse.jgit.ant.test
 - org.eclipse.jgit.console

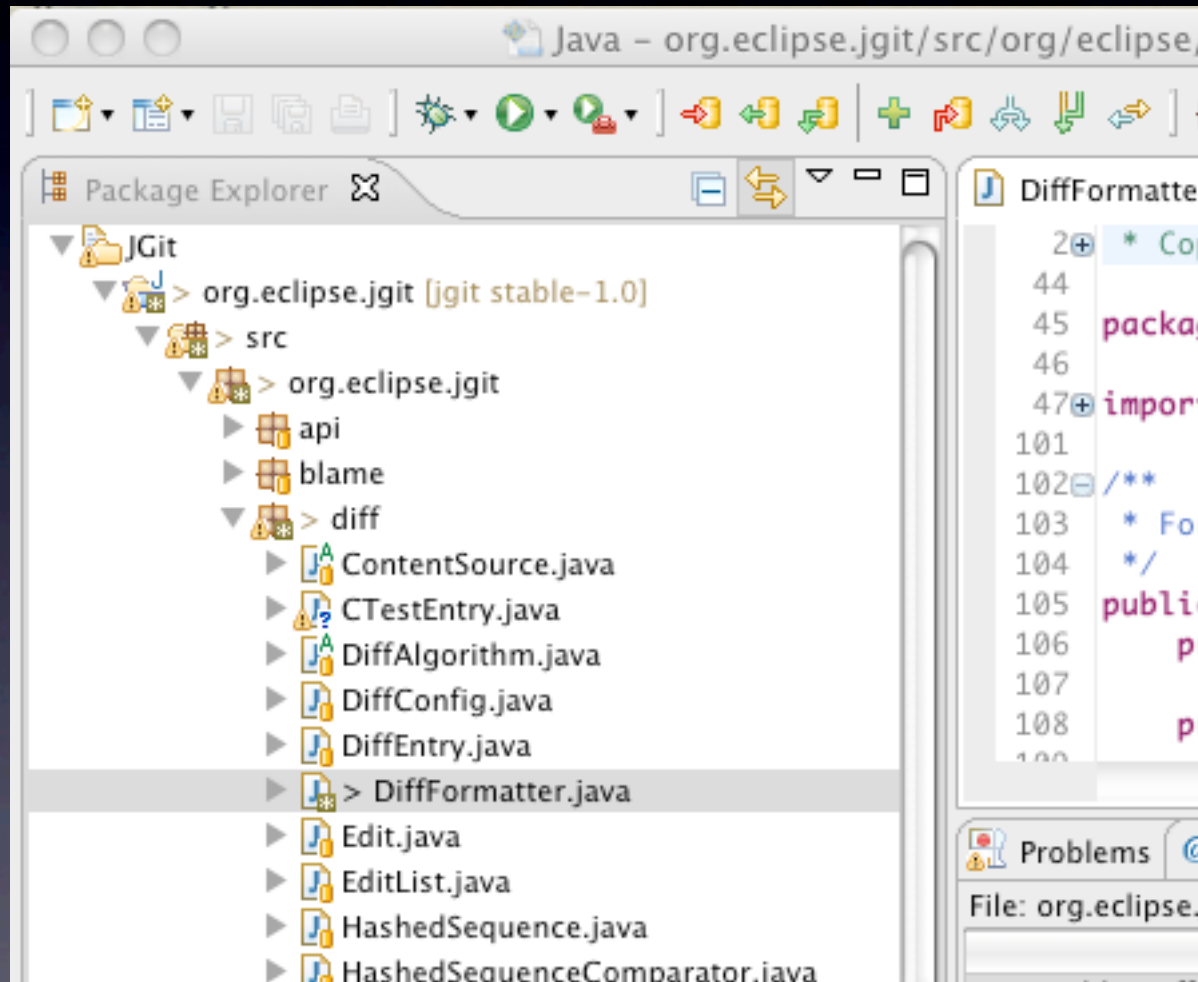
Properties

Property	Value

1 items selected

114M of 225M

Projets



Historique

Project: org.eclipse.jgit [jgit]

Commit Message	Author	Date	Id
... PackWriter: Add missing timers to Statistics	Shawn O. Pearce <spearce@spearce.org>	4 months ago	7505b935...
Show notes in Log CLI command	Sasa Zivkov <sasa.zivkov@sap.com>	4 months ago	5f3d577e...
PackWriter: Fix total delta count	Shawn O. Pearce <spearce@spearce.org>	4 months ago	977446e5...
Merge "Create empty GIT_DIR/hooks directory"	Shawn O. Pearce <spearce@spearce.org>	4 months ago	561549d7...
Merge "Fix potential NullPointerException in PlotCommit"	Shawn Pearce <spearce@spearce.org>	4 months ago	5bf3df5e...
Create empty GIT_DIR/hooks directory	Shawn O. Pearce <spearce@spearce.org>	4 months ago	6444e60d...
Fix potential NullPointerException in PlotCommit	Mathias Kinzler <mathias.kinzler@sap.com>	4 months ago	9953e2a3...
v0.11.3 [origin/stab...] JGit 0.11.3	Matthias Sohn <matthias.sohn@sap.com>	4 months ago	98914973...
Fix NullPointerException when pulling from a deleted local branch	Stefan Lay <stefan.lay@sap.com>	4 months ago	68064ed3...
Fix processing of broken symbolic references in RefDirectory	Marc Strapetz <marc.strapetz@syntevo.com>	4 months ago	57d13c04...
CreateBranchCommand: Wrong existence check	Mathias Kinzler <mathias.kinzler@sap.com>	4 months ago	c893b1f7...
Qualify post 0.11.1 builds	Matthias Sohn <matthias.sohn@sap.com>	4 months ago	5998e474...
PackWriter: Hoist and cluster reference targets	Shawn O. Pearce <spearce@spearce.org>	4 months ago	8f865bff...
PackWriter: Parse tag target objects in a batch	Shawn O. Pearce <spearce@spearce.org>	4 months ago	19037e8c...
PackWriter: Short-circuit counting on full cached pack reuse	Shawn O. Pearce <spearce@spearce.org>	4 months ago	3e64b928...
PackWriter: Correct total delta count when reusing pack	Shawn O. Pearce <spearce@spearce.org>	4 months ago	388ba7e0...
PackWriter: Fix warning about untyped collection	Shawn O. Pearce <spearce@spearce.org>	4 months ago	4275c4c1...
BundleWriter: Always use OFS_DELTA	Shawn O. Pearce <spearce@spearce.org>	4 months ago	5fc0f104...
Merge "PackWriter: Sort commits by parse order to improve locality"	Chris Aniszczyk <caniszczyk@gmail.com>	4 months ago	ae0a1340...

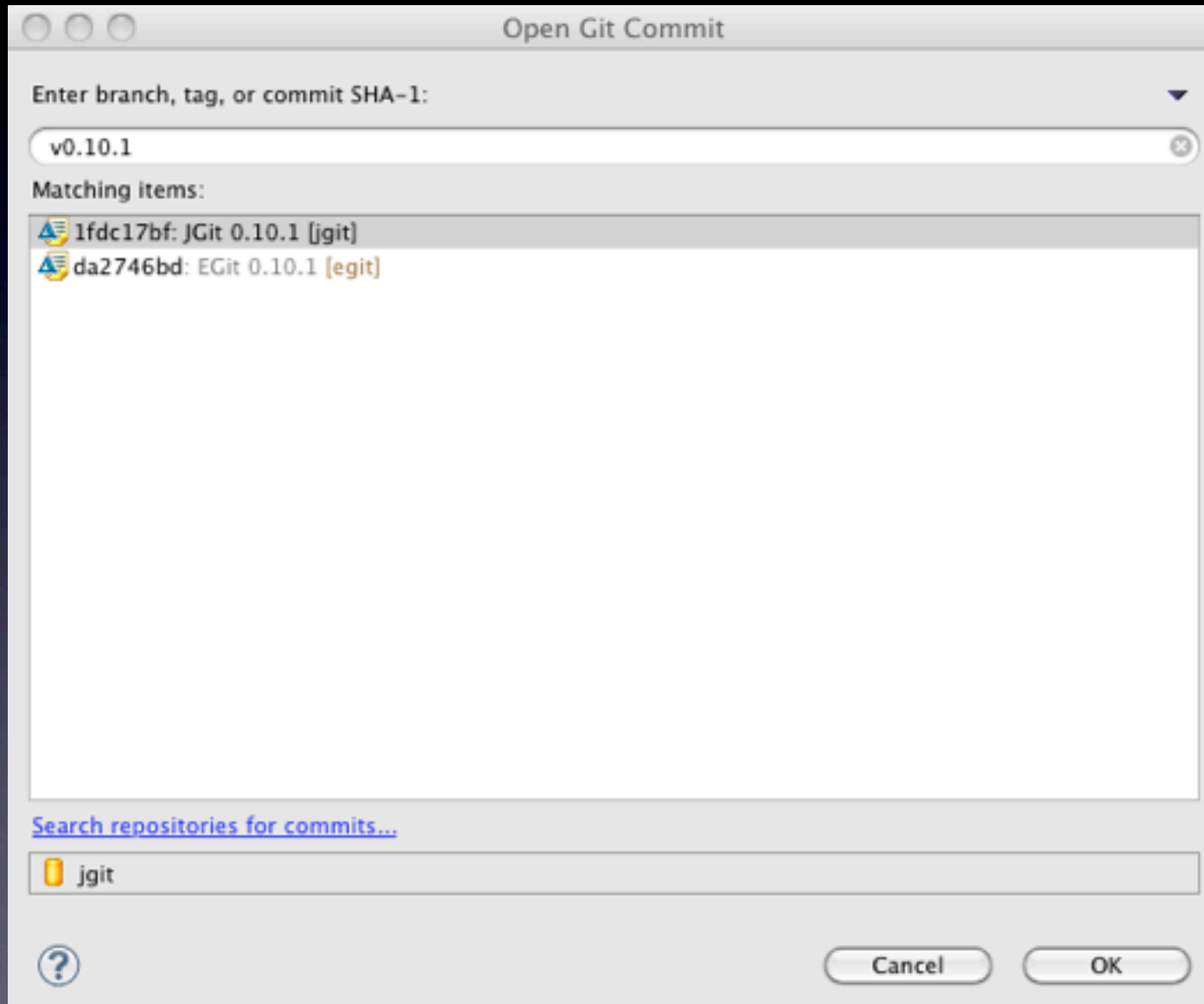
commit 9953e2a39e3604324103d7dc35615e3f721da36d
Author: Mathias Kinzler <mathias.kinzler@sap.com> 2011-02-22 09:11:42
Committer: Mathias Kinzler <mathias.kinzler@sap.com> 2011-02-22 09:11:42
Parent: 388ba7e005fdc5b61a7a494fa44ba24489d0c6d0 (PackWriter: Correct total delta count when reusing pack)
Child: 5bf3df5e1d001e4f44a91e7b87b380ce59e7705d (Merge "Fix potential NullPointerException in PlotCommit")
Branches: origin/master, stable-1.0, origin/HEAD, origin/stable-0.12, master, origin/stable-1.0

Fix potential NullPointerException in PlotCommit

Change-Id: Ib7f661a259561251e74337fa233036e041c42423

Find: 3/5

Recherche



Recherche

DiffFormatter.java MyersDiff.java MyersDiff.java db35d91fa6ca6339f58149cf45cb02555 1fdc17bf [jgit]

jgit commit 1fdc17bfe4a1deb61756abeb8470bd813827d44a

Matthias Sohn <matthias.sohn@sap.com> on 17/12/10 01:38 Parent: [86847ee3224ac93da478](#)

Matthias Sohn <matthias.sohn@sap.com> on 17/12/10 03:10

Tags: v0.10.1

Message

JGit 0.10.1

Change-Id: I4a46d35d354193e5d4f28ef7dfae75944be8ffcf

Files (30)

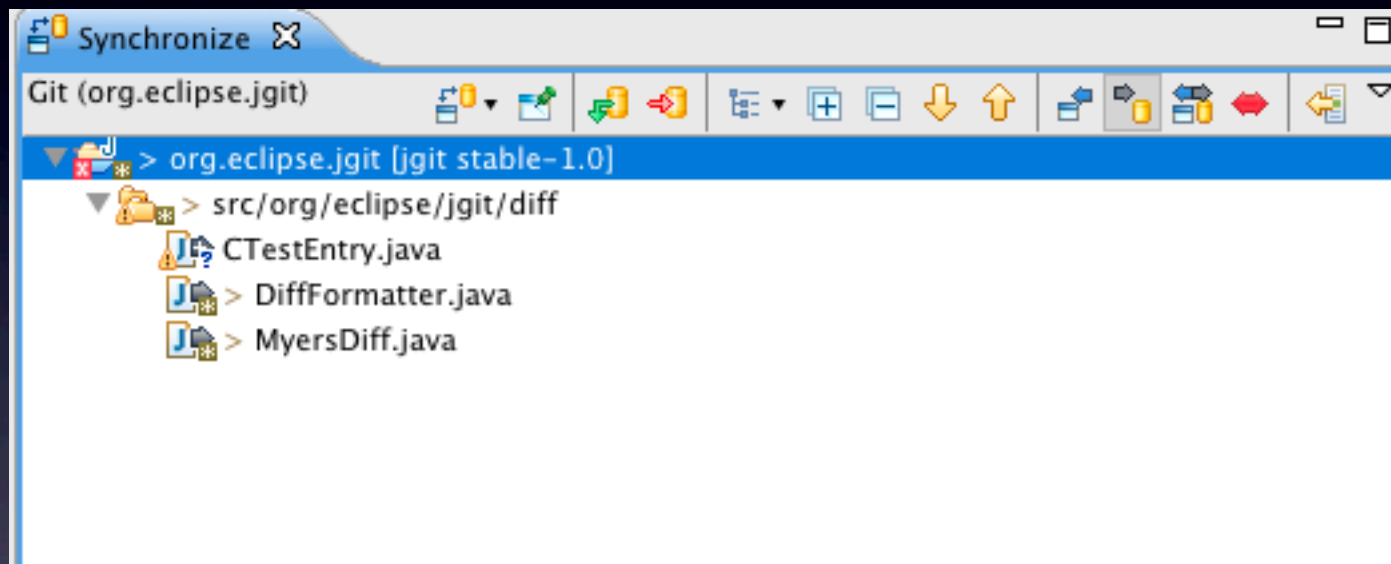
- org.eclipse.jgit.console/META-INF/MANIFEST.MF
- X org.eclipse.jgit.console/pom.xml
- org.eclipse.jgit.http.server/META-INF/MANIFEST.MF
- X org.eclipse.jgit.http.server/pom.xml
- org.eclipse.jgit.http.test/META-INF/MANIFEST.MF
- X org.eclipse.jgit.http.test/pom.xml
- org.eclipse.jgit.iplog/META-INF/MANIFEST.MF
- X org.eclipse.jgit.iplog/pom.xml
- org.eclipse.jgit.iplog.test/META-INF/MANIFEST.MF

Branches (7)

- master
- origin/master
- origin/stable-0.10
- origin/stable-0.11
- origin/stable-0.12
- origin/stable-1.0
- stable-1.0

Commit Diff

Synchronize



Staging area

The screenshot shows the Eclipse IDE's Git Staging view for a project named 'jgit'. The view is divided into several sections:

- Problems, Javadoc, Declaration, Progress, History, Git Staging:** These are tabs at the top of the IDE window.
- Git Staging View:** The main area is titled 'jgit' and contains:
 - Unstaged Changes (4):** A list of files that have been modified but not yet staged for commit. The files are:
 - .DS_Store
 - org.eclipse.jgit.ant.test/bar
 - org.eclipse.jgit.ant.test/does-not-exist
 - org.eclipse.jgit/src/org/eclipse/jgit/diff/CTestEntry.java
 - Staged Changes (3):** A list of files that have been staged for commit. The files are:
 - org.eclipse.jgit/META-INF/MANIFEST.MF
 - org.eclipse.jgit/src/org/eclipse/jgit/diff/DiffFormatter.java
 - org.eclipse.jgit/src/org/eclipse/jgit/diff/MyersDiff.java
 - Commit Message:** A large text area for entering the commit message.
 - Author:** A text field containing 'Igor Laborie <ilaborie@gmail.com>'.
 - Committer:** A text field containing 'Igor Laborie <ilaborie@gmail.com>'.

Démos

Conclusion

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- Meilleur de la CLI Historique, Gerrit
- Git : «L'essayer c'est l'adopter»

Question(s) ?

Merci



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